

8670 CACCAGGGCC	8680 AGGGGTCAGA	8690 TATCCACTGA	8700 CCTTTGGATG	8710 GTGCTACAAG
8720 CTAGTACCAG	8730 TTGAGCCAGA	8740 TAAGGTAGAA	8750 GAGGCCAATA	8760 AAGGAGAGAA
8770 CACCAGCTTG	8780 TTACACCCTG	8790 TGAGCCTGCA	8800 TGGAATGGAT	8810 GACCCTGAGA
8820 GAGAAGTGTT	8830 AGAGTGGAGG	8840 TTTGACAGCC	8850 GCCTAGCATT	8860 TCATCACGTG
8870 GCCCCGAGAGC	8880 TGCATCCGGA	8890 GTACTTCAAG	8900 AACTGCTGAC	8910 ATCGAGCTTG
8920 CTACAAGGGA	8930 CTTTCCGCTG	8940 GGGACTTTCC	8950 AGGGAGGCGT	8960 GGCCTGGGCG
8970 GAACTGGGGA	8980 GTGGCGAGCC	8990 CTCAGATGCT	9000 GCATATAAGC	9010 AGCTGCTTTT
9020 TGCCTGTACT	9030 GGGTCTCTCT	9040 GGTTAGACCA	9050 GATTTGAGCC	9060 TGGGAGCTCT
9070 CTGGCTAACT	9080 AGGGAACCCA	9090 CTGCTTAAGC	9097 CTCAATA	10 AAGCTTGCCT
20 TGAGTGCTTC	30 AAGTAGTGTG	40 TGCCCGTCTG	50 TTGTGTGACT	60 CTGGTAACTA
70 GAGATCCCTC	80 AGACCCTTTT	90 AGTCAGTGTG	100 GAAAATCTCT	110 AGCAGTGGCG
120 CCCGAACAGG	130 GACTTGAAAG	140 CGAAAGGGAA	150 ACCAGAGGAG	159 CTCTCTCGA

16. (NEW) The nucleic acid of claim 15, wherein said nucleic acid is labeled with a label selected from the group consisting of a radioisotope, an enzyme, a fluorescent label, and a chromophore label. --

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Original Claims

1. A DNA fragment of LAV extending from nucleotide position 236 to nucleotide position 1759.
2. A DNA fragment of LAV extending from nucleotide position 1555 to nucleotide position 5086.
3. A DNA fragment of LAV extending from nucleotide position 5670 to nucleotide position 8132.
4. A vector containing a DNA fragment according to any of claims 1 to 3.
5. Peptide corresponding to any of those encoded by the nucleotide sequences which extend respectively between the following positions:
 - a) from about 6095 to about 6200
 - b) from about 6260 to about 6310
 - c) from about 6390 to about 6440
 - d) from about 6485 to about 6620
 - e) from about 6860 to about 6930
 - f) from about 7535 to about 7630

6. Peptide characterized by a sequence of amino acids deducible from LAV DNA the terminal amino acids of which extend between the following positions with respect to the lysine (position 1) coded by the AAA at position 5670-5672 in the LAV DNA.

8-23 amino acids inclusive
63-78 amino acids inclusive
82-90 amino acids inclusive
97-123 amino acids inclusive
127-183 amino acids inclusive
197-201 amino acids inclusive
239-294 amino acids inclusive
300-327 amino acids inclusive
334-381 amino acids inclusive
397-424 amino acids inclusive
466-500 amino acids inclusive
510-523 amino acids inclusive
551-577 amino acids inclusive
594-603 amino acids inclusive
621-630 amino acids inclusive
657-679 amino acids inclusive
719-758 amino acids inclusive
780-803 amino acids inclusive

or any combination of these peptides.

7. Peptide corresponding to the amino acid sequences deducible from LAV DNA and the terminal amino acids of which are positioned at the positions hereafter counted from the Met at position 1 coded by the ATG sequence at nucleotide positions 260-2 :

12-32 amino acids inclusive
37-46 amino acids inclusive
49-79 amino acids inclusive
88-153 amino acids inclusive
158-165 amino acids inclusive
178-188 amino acids inclusive
200-220 amino acids inclusive
226-234 amino acids inclusive
239-264 amino acids inclusive
288-331 amino acids inclusive
352-361 amino acids inclusive
377-390 amino acids inclusive
399-432 amino acids inclusive
437-484 amino acids inclusive
492-498 amino acids inclusive

and combination of said peptides.

8. Diagnostic means containing any of the DNA fragments of any of claims 1 to 3.

9. Diagnostic means containing any of the peptides of any of claims 4 to 6.

10. Vaccine compositions containing any of the peptides according to any of claims 4 to 6 in association with a pharmaceutical vehicle.